

| Smart Skies | | | |
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| 2006 Science | | | |
| Content Standards | | | |
| Montana Science | | | |
| Grades 5-8 | | | |
| Activity/Lesson | State | Standards | |
| Fly by Math | MT | SCI.5-8.1.1 | Identify a question, determine relevant variables and a control, formulate a testable hypothesis, plan and predict the outcome of an investigation, safely conduct scientific investigation, and compare and analyze data |
| Fly by Math | MT | SCI.5-8.1.2 | Select and use appropriate tools including technology to make measurements (in metric units), gather, process and analyze data from scientific investigations |
| Fly by Math | MT | SCI.5-8.2.3 | Describe energy and compare and contrast the energy transformations and the characteristics of light, heat, motion, magnetism, electricity, sound and mechanical waves |
| Fly by Math | MT | SCI.5-8.2.4 | Model and explain the states of matter are dependent upon the quantity of energy present in the system and describe what will change and what will remain unchanged at the particulate level when matter experiences an external force or energy change |
| Fly by Math | MT | SCI.5-8.2.5 | Describe and explain the motion of an object in terms of its position, direction, and speed as well as the forces acting upon it |
| Fly by Math | MT | SCI.5-8.2.6 | Identify, build, describe, measure, and analyze mechanical systems (e.g., simple and complex compound machines) and describe the forces acting within those systems |
| Line Up with Math | MT | SCI.5-8.2.3 | Describe energy and compare and contrast the energy transformations and the characteristics of light, heat, motion, magnetism, electricity, sound and mechanical waves |
| Line Up with Math | MT | SCI.5-8.2.5 | Describe and explain the motion of an object in terms of its position, direction, and speed as well as the forces acting upon it |
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| Smart Skies | | | |
| 2006 Science | | | |
| Content Standards | | | |
| Montana Science | | | |
| Grades 9-12 | | | |
| Activity/Lesson | State | Standards | |
| Fly by Math | MT | SCI.9-12.1.1 | Generate a question, identify dependent and independent variables, formulate testable, multiple hypotheses, plan an investigation, predict its outcome, safely conduct the scientific investigations, and collect and analyze data |

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| Fly by Math | MT | SCI.9-12.1.2 | Select and use appropriate tools including technology to make measurements (in metric units), gather, process and analyze data from scientific investigations using appropriate mathematical analysis, error analysis, and graphical representation |
| Fly by Math | MT | SCI.9-12.4.4 | Collect and analyze local and regional weather data to make inferences and predictions about weather patterns; explain factors influencing global weather and climate; and describe the impact on Earth of fluctuations in weather and climate (e.g., drought, surface and ground water, glacial instability) |
| Fly by Math | MT | SCI.9-12.2.5.a | Explain the interactions between motions and forces including the laws of motion and an understanding of the gravitational and electromagnetic forces. |
| Fly by Math | MT | SCI.9-12.2.5.b | Explain the interactions between motions and forces including the laws of motion and an understanding of the gravitational and electromagnetic forces. |
| Line Up with Math | MT | SCI.9-12.2.5.a | Explain the interactions between motions and forces including the laws of motion and an understanding of the gravitational and electromagnetic forces. |